BRUHAT BANGALORE MAHANAGARA PALIKE

YALAHANKA DIVISION

Name of Work: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

ESTIMATE COST : 100.00 Lakhs

Executive Engineer,
Yalahanka division,

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ

ಯಲಹಂಕ ಸ್ಯಾಟಲೈಟ್ ಉಪ-ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ, ಆರ್.ಟಿ.ಓ. ಕಾಂಪ್ಲೆಕ್ಸ್ ಹಿಂದೆ ಯಲಹಂಕ ಸ್ಯಾಟಲೈಟ್ ಬೆಂಗಳೂರು-560064

~~~~ ಅಂದಾಜು ಪಟ್ಟಿಯೊಂದಿಗಿನ ವರದಿ ~~~~

ವಿಷಯ: - Improvements of RCC Drains and CC Roads to main roads at Basavalingappa Layout and surrounding area In Ward No.03, ಕಾಮಗಾರಿಗೆ ಜಾಬ್‌ಕೋಡ್ ಸಂಕೇತ ನೀಡಲು ಕೋರಿರುವ ಬಗ್ಗೆ.

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ಯಲಹಂಕ ಸ್ಯಾಟಲೈಟ್ ಉಪವಿಭಾಗ ವಾರ್ಡ್ ನಂ.03ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ 2019-20ನೇ ಸಾಲಿನ ಪಾಲಿಕೆ ಅಯವ್ಯಯದ ಪಿ ಕೋಡ್-1878 ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಅಡಿಯಲ್ಲಿ ಮೇಲಿನ ಕಾಮಗಾರಿಗೆ ರೂ.100.00 ಲಕ್ಷಗಳಿಗೆ ಜಾಬ್‌ಕೋಡ್ ಸಂಕೇತ ಕೋರಿ.

ಆಟ್ಟೂರು ವ್ಯಾಪ್ತಿಯ ಬಸವಲಿಂಗಪ್ಪ ಬಡಾವಣೆ ಸುತ್ತಮುತ್ತಲ್ಲಿನ ಮೋರಿ ಮತ್ತು ರಸ್ತೆಗಳನ್ನು ನಿರ್ಮಾಣ ಮಾಡಲು ಪಾಲಿಕೆ ಸದಸ್ಯರು ರಸೂಚಿಸಿರುತ್ತಾರೆ. ಅದರಂತೆ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯನ್ನು 2019-20ನೇ ಸಾಲಿನ ಬಿಬಿಎಂಪಿ ಆಯವ್ಯಯದಲ್ಲಿ ಪಿ-1878ರಲ್ಲಿ ರೂ.100.00 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಮೀಸಲಿರಿಸಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಅನುದಾನಕ್ಕೆ 2018-19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ ಮತ್ತು ಮಾರುಕಟ್ಟೆ ದರಗಳ ಅನುಸಾರ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳೊಂದಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.100.00ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ.

1. Earthwork excavation by manual means for roads, drains & similar works in ordinary
2. Removing & Refixing stone slabs of drains and pointing in C.M
3. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm
4. Providing and laying plain/reinforced cement concrete for side drains
5. Providing T.M.T. steel reinforcement for R.C.C. work including straightening
6. Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded
7. Providing and fixing Precast RCC cover slabs of 250 mm thick for drain in cement concrete 1:1.5:3 using graded
8. Compaction of original ground by mechanical means including filling
9. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam
10. Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement
11. Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed

ಸಹಾಯಕ ಅಭಿಯಂತರರು

ವಾರ್ಡ್ ಸಂಖ್ಯೆ. 03

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಬಿಬಿಎಂಪಿ, ಯಲಹಂಕ ಸ್ಯಾಟಲೈಟ್ ಉಪ – ವಿಭಾಗ
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BRUHATH BENGALORE MAHANAGARA PALIKE YALAHANKA ZONE

Name of Work :Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	Basavalingappa Layout								
	For RCC drain								
	1st Main Road	2	207.00	1.10	1.00	455.40			
	2nd Main Road	2	170.00	1.10	1.00	374.00			
	For RCC Culvert								
	2nd Main Road								
	At 3rd Cross	2	4.50	1.50	1.00	13.50			
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20	0.30	86.40			
	2nd Main Road	2	104.00	1.20	0.30	74.88			
	1st cross	1	100.00	1.00	0.30	30.00			
	2nd cross	2	102.00	1.00	0.30	61.20			
	3rd cross	2	106.00	1.00	0.30	63.60			
	4th cross	2	111.00	1.00	0.30	66.60			
	5th cross	2	98.00	1.00	0.30	58.80			
						1284.38	**Cum**	**220.40**	**283077.35**
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Basavalingappa Layout								
	Covering RCC Slab								
	1st Main Road	2	60.00	0.90		108.00			
	2nd Main Road	2	65.00	0.90		117.00			
				Sub Total		**225.00**			
		Consider 35% of missing slabs				**79.80**			
						145.20	**Sqm**	**111.30**	**16160.76**
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basavalingappa Layout								
	For RCC drain								
	1st Main Road	2	207.00	1.10	0.15	68.31			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2nd Main Road	2	170.00	1.10	0.15	56.10			
	For RCC Culvert								
	2nd Main Road								
	At 3rd Cross	2	4.50	1.50	0.15	2.03			
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20	0.15	43.20			
	2nd Main Road	2	104.00	1.20	0.15	37.44			
	1st cross	1	100.00	1.00	0.15	15.00			
	2nd cross	2	102.00	1.00	0.15	30.60			
	3rd cross	2	106.00	1.00	0.15	31.80			
	4th cross	2	111.00	1.00	0.15	33.30			
	5th cross	2	98.00	1.00	0.15	29.40			
						347.18	**Cum**	**5421.90**	**1882348.13**
4	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271)								
	Basavalingappa Layout								
	For Bottom Raft								
	For RCC drain								
	1st Main Road	2	207.00	0.90	0.15	55.89			
	2nd Main Road	2	170.00	0.90	0.15	45.90			
	For RCC Culvert								
	2nd Main Road								
	At 3rd Cross	2	4.50	1.20	0.20	2.16			
	For CC drain Wall								
	For RCC drain								
	1st Main Road	4	207.00	0.15	0.70	86.94			
	2nd Main Road	4	100.00	0.15	0.70	42.00			
		4	70.00	0.15	0.65	27.30			
	For RCC Culvert								
	2nd Main Road								
	At 3rd Cross	4	4.50	0.30	0.65	3.51			
						263.70	**Cum**	**7070.20**	**1864411.74**
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 -TMT Bars Fe 500 (I No-28.8.2,P No-229 PWD SR 2018-19)								
	Consider 65kg/Cum for drain	1	258.03	65.00		19985.00			

Sl.No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Consider 90kg/Cum for Culvert	1	5.67	90.00		510.30			
						20.50	**Tonne**	**72326.98**	**1482363.15**
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basavalingappa Layout								
	New Precast Slab								
	For RCC drain								
	1st Main Road	2	147.00	0.90		264.60			
	2nd Main Road	2	106.00	0.90		190.80			
				Missing Slabs		79.80			
						535.20	**Sqm**	**2337.00**	**1250762.40**
7	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 250 mm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basavalingappa Layout								
	For RCC Culvert								
	2nd Main Road								
	At 3rd Cross	2	4.50	1.20		10.80			
						10.80	**Sqm**	**5418.00**	**58514.40**
8	KSRRB 300-Compaction KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.(P.No. 147, I.No. 19.64)								
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20		288.00			
	2nd Main Road	2	104.00	1.20		249.60			
	1st cross	1	100.00	1.00		100.00			
	2nd cross	2	102.00	1.00		204.00			
	3rd cross	2	106.00	1.00		212.00			
	4th cross	2	111.00	1.00		222.00			
	5th cross	2	98.00	1.00		196.00			
						1471.60	**Cum**	**6.36**	**9359.38**
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)								
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20	0.15	43.20			
	2nd Main Road	2	104.00	1.20	0.15	37.44			

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st cross	1	100.00	1.00	0.15	15.00			
	2nd cross	2	102.00	1.00	0.15	30.60			
	3rd cross	2	106.00	1.00	0.15	31.80			
	4th cross	2	111.00	1.00	0.15	33.30			
	5th cross	2	98.00	1.00	0.15	29.40			
						220.74	**Cum**	**2001.28**	**441762.55**
10	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20	0.15	43.20			
	2nd Main Road	2	104.00	1.20	0.15	37.44			
	1st cross	1	100.00	1.00	0.15	15.00			
	2nd cross	2	102.00	1.00	0.15	30.60			
	3rd cross	2	106.00	1.00	0.15	31.80			
	4th cross	2	111.00	1.00	0.15	33.30			
	5th cross	2	98.00	1.00	0.15	29.40			
						220.74	**Cum**	**5210.96**	**1150267.31**
11	Vaccum de-watering with **vaccum pump** and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.								
	For CC Road								
	Cutting Portion								
	1st Main Road	2	120.00	1.20		288.00			
	2nd Main Road	2	104.00	1.20		249.60			
	1st cross	1	100.00	1.00		100.00			
	2nd cross	2	102.00	1.00		204.00			
	3rd cross	2	106.00	1.00		212.00			
	4th cross	2	111.00	1.00		222.00			
	5th cross	2	98.00	1.00		196.00			
						1471.60	**Sqm**	**72.08**	**106072.93**
								Total Construction Cost	**8545100.10**
								GST Charges 12%	**1025412.01**
								KRIDL Charges 4%	**341804.00**
								Towords PMC cost 1%	**85451.00**
								Sub Total	**9997767.12**

9907165.20

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Utility Shifting,Miscellaneous and Rounding off								1661.88
GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-19. and Data Rates

Assistant Engineer
Ward No.3

Asst. Executive Engineer,
Yelahanka Satellite town Sub division,
Bangalore-64

Executive Engineer,
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 100.00 Lakhs
one crore only
is accorded under head P-1878 18 per
works 2018-19
Registered as C... Subject
to conditions contained in
No.EE/YNK/AS/18/2019-20 19/10/2019
Executive Engineer

Technical Sanction
Accorded For RS 100 lakhs only
Head of A/C P.1878
CER NO :.... Dt:23.10.2019
AEE ICE (YNK).

Bruhat Bangalore Mahanagara Palike

Name of Work :Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

RATE ANALYSIS

(Based on Schedule of Rates for the year 2018- 2019 PW, P&IWTD Bangalore Circle.

Sl. No.	Description of work	Unit	SR Page No	Item No.	Basic Rate in Rs.	Loading and Unloading 6%	Sub total in Rs	Area Weightage 6%	Total Rate in Rs.
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 10km lead= 57+2.0x1.28x10 =82.60	Cum	144	19.1	130.00	82.60	212.60	7.80	220.40
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)	Sqm	27	5.33	105.00		105.00	6.30	111.30
3	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)	Cum	222	27.18	5115.00		5115.00	306.90	5421.90
4	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271)	Cum	271	37.59.2	6670.00		6670.00	400.20	7070.20

Sl. No.	Description of work	Unit	SR Page No	Item No.	Basic Rate in Rs.	Loading and Unloading 6%	Sub total in Rs	Area Weightage 6%	Total Rate in Rs.
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio(I No-28.8.2,P No-229)	Tonne	229	28.8.2	68233.00		68233.00	4093.98	72326.98
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	Data Rate						2337.00
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 250 mm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	Data Rate						5418.00
8	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)	Sqm	147	19.64	6.00		6.00	0.36	6.36
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)	Cum	155	20.18	1888.00		1888.00	113.28	2001.28

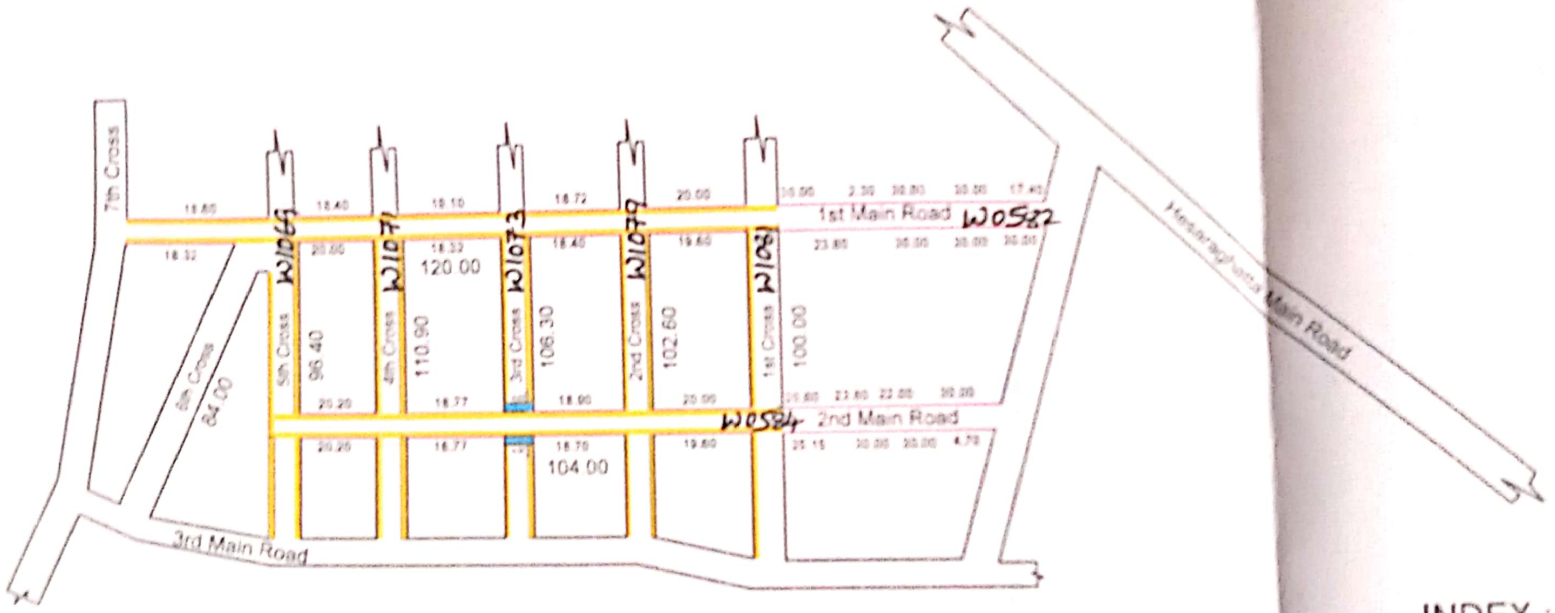
Sl. No.	Description of work	Unit	SR Page No	Item No.	Basic Rate in Rs.	Loading and Unloading 6%	Sub total in Rs	Area Weightage 6%	Total Rate in Rs.
10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fin aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separationmembrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications (I No-22.6.1,P No-176)	Cum	176	22.6.1	4916.00		4916.00	294.96	5210.96
11	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(I No-22.7,P No-176)	Sqm	176	22.7	68.00		68.00	4.08	72.08

Assistant Engineer
Ward No.3
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Satellite town Sub division,
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Name of Work:-Improvements of RCC Drain and CC Roads to Main Roads at Basavalingappa Layout and Surrounding area in ward no.03



Assistant Engineer
Ward No.03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division

INDEX :-

- CC ROAD
- RCC Culvert
- RCC DRAIN

ALL DIMENSIONS IN METERS